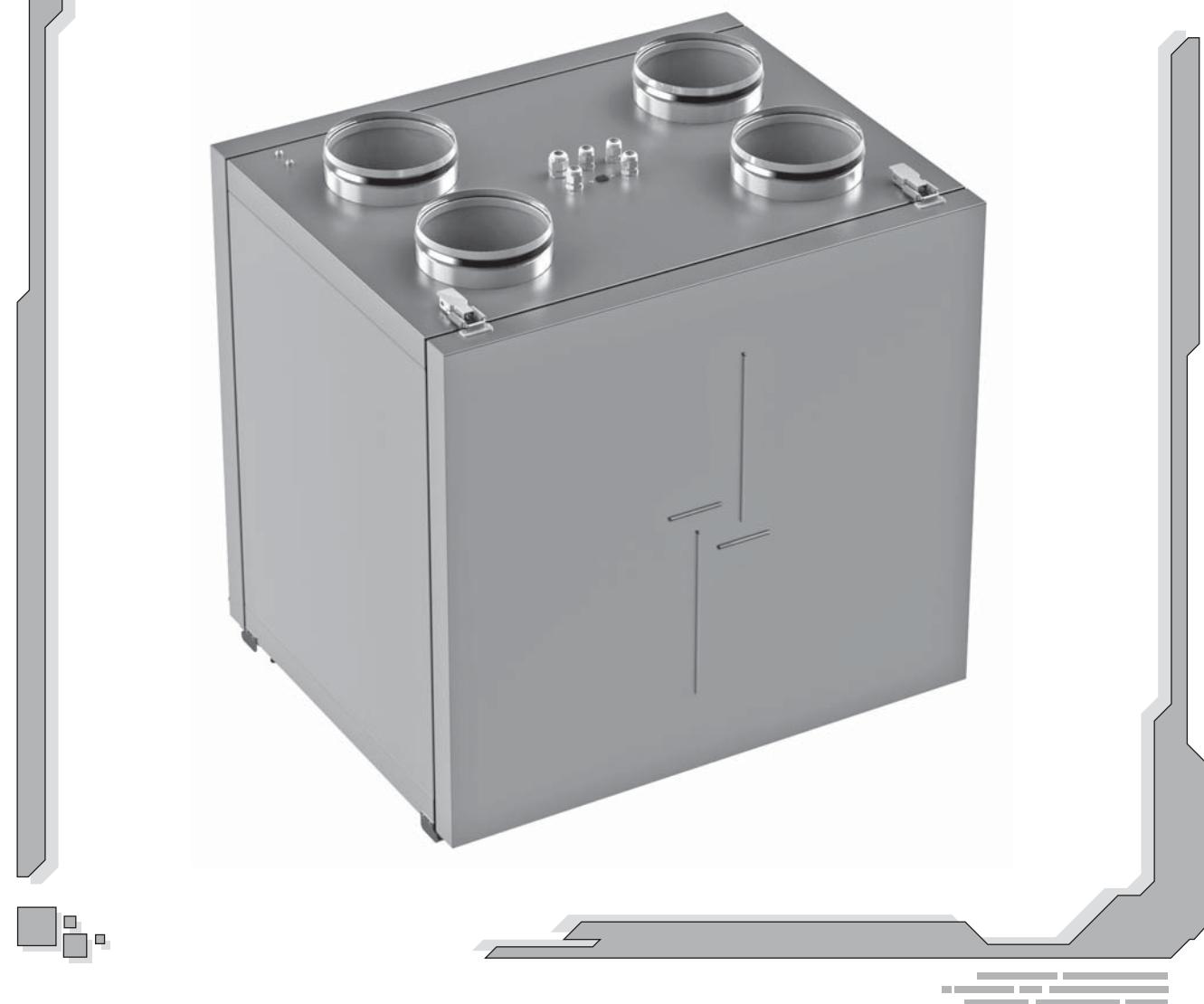


USER'S MANUAL

**VUT 160 V EC A14
VUT 350 VB EC A14
VUT 550 VB EC A14**



HEAT RECOVERY AIR HANDLING UNIT

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■ SAFETY REQUIREMENTS

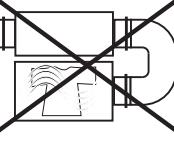
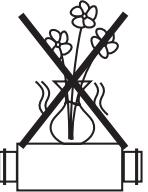
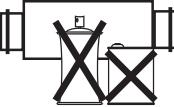
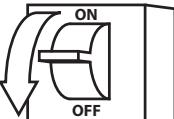
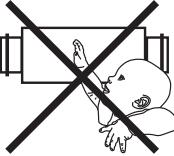
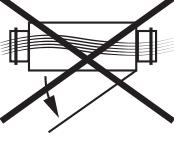
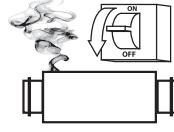
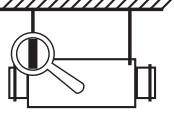
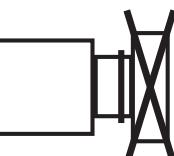
- Read the user's manual carefully prior to the operation and installation of the VUT ... VB EC A14 or VUT ... V EC A14 heat recovery air handling units.
- Fulfil the operation manual requirements as well as the provisions of all the applicable local and national construction, electrical and technical codes and standards.
- The warnings contained in the user's manual must be considered most seriously since they contain vital personal safety information.
- Failure to follow the safety requirements may result in an injury or unit damage.
- Read the manual carefully and keep it as long as you use the unit.
- While transferring the unit control the user's manual must be turned over to the receiving operator.

Symbol legend used in the manual:

	WARNING!
	DO NOT!

UNIT MOUNTING AND OPERATION SAFETY PRECAUTIONS

	The unit must be disconnected from power supply prior to any installation or repair operations.		The unit must be grounded!
	The unit must not be operated outside the temperature range stated in the user's manual and in aggressive or explosive environments.		Do not use damaged equipment or conductors to connect the unit to power mains.
	While installing the unit follow the safety regulations specific to the use of electric tools.		Unpack the unit with care.
	Do not change the power cable length at your own discretion. Do not bend the power cable. Avoid damaging of the power cable.		Do not position any heating devices or other equipment in close proximity to the unit power cable.

	<p>Do not touch the unit controls with wet hands. Do not carry out the unit maintenance with wet hands.</p>		<p>Use the unit only as intended by the manufacturer. Do not connect a clothes dryer or other similar equipment to the unit or the ventilation system.</p>
	<p>Do not wash the unit with water. Protect the unit electric parts from water ingress.</p>		<p>Do not put any water containers on the unit, i.e. flower vases.</p>
	<p>Keep combustible gases and inflammable products away from the unit.</p>		<p>Disconnect the unit from power supply prior to maintenance.</p>
	<p>Do not let children operate the unit.</p>		<p>Do not damage the power cable while operating the unit. Do not put any objects on the power cable.</p>
	<p>Do not sit on the unit and do not put any objects on it.</p>		<p>Do not open the operating unit.</p>
	<p>In case of unusual sounds, smell of smoke disconnect the unit from power supply and contact the service centre.</p>		<p>During a long-term operation of the unit periodically check the mounting for reliability.</p>
	<p>Do not block the air duct when the unit is on.</p>		<p>Do not let air flow from the unit be directed to the open flame devices or candles.</p>

■ INTRODUCTION

This user's manual includes technical description, operation, installation and mounting guidelines, technical data for the VUT VB EC A14 and VUT V EC A14 heat recovery air handling units, hereinafter referred as the unit.

■ USE

The unit is an energy saving unit based on heat recovery technology and is one of the energy saving components used in the buildings and premises. The unit is a component part and is not designed for stand-alone operation.

The unit is designed to provide permanent controlled air exchange by means of mechanical ventilation in houses, offices, hotels, cafés, meeting halls and other mechanically ventilated premises as well as utilization of extract air heat energy to warm up supply purified air.

Transported air must not contain any flammable or explosive mixtures, evaporation of chemicals, coarse dust, soot and oil particles, sticky substances, fibrous materials, pathogens or any other harmful substances.



THE UNIT IS NOT INTENDED TO BE USED BY CHILDREN, PHYSICALLY OR MENTALLY DISABLED PERSONS, PERSONS WITH SENSORY DISORDER, PERSONS WITH NO APPROPRIATE QUALIFICATION. ALL OPERATIONS WITH THE UNIT MUST BE PERFORMED ONLY BY PROPERLY QUALIFIED PERSONNEL AFTER THE APPROPRIATE SAFETY BRIEFING. THE UNIT INSTALLATION SITES MUST PREVENT ACCESS BY UNATTENDED CHILDREN.

■ DELIVERY SET

■ Unit	1 item
■ User's manual	1 item
■ Control panel	1 item
■ Mounting box for wall flush mounting	1 item
■ Mounting box for wall surface mounting	1 item
■ Drain pipe	1 item
■ Fastening kit	1 item
■ Packing box	1 item

■ DESIGNATION KEY

VUT X VX EC A14

Unit type ■

VUT - ventilation with heat recovery

Air capacity [m³/h] ■

Spigot orientation ■

V - vertical spigot orientation
for wall or floor mounting.

Extra components ■

_ - No components available
B - bypass damper

Motor type ■

electronically commutated

Control panel ■

■ TECHNICAL DATA

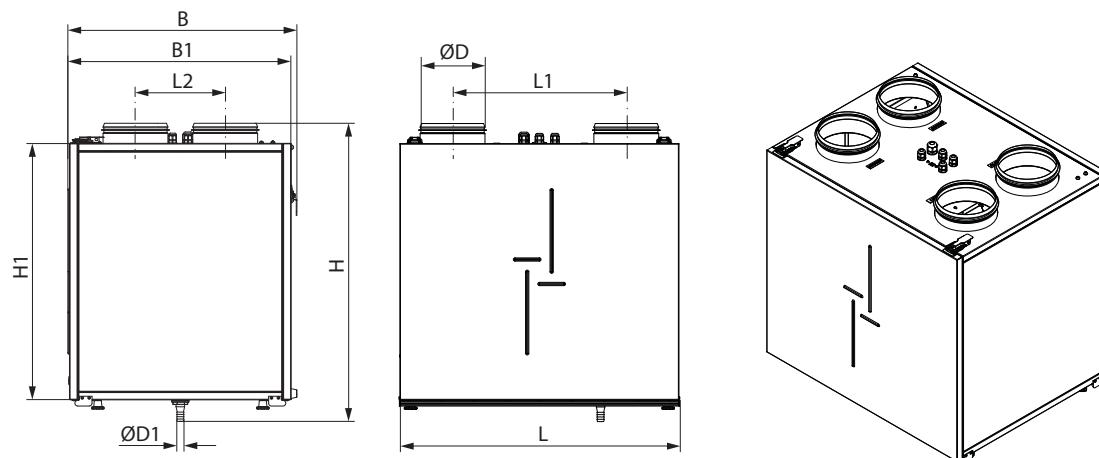
The unit is designed for indoor application with the ambient temperature ranging from +1°C up to +40°C and relative humidity up to 80 %.

Hazardous parts access and water ingress protection rating:

- IP 44 for the unit motors;
- IP 22 for the assembled unit connected to the air ducts.

The unit design is regularly improved, so some models can slightly differ from those ones described in this manual.

Model	VUT 160 V EC A14	VUT 350 VB EC A14	VUT 550 VB EC A14
Unit voltage [V / 50-60 Hz]	1~230		
Max. unit power [W]	51	166	333
Max. unit current [A]	0,4	1,3	2,3
Max. air capacity [m³/h]	180	415	700
RPM	3770	3200	3230
Sound pressure level at 3 m distance [dB(A)]	44	51	55
Transported air temperature [°C]	from -25 up to +60 °C		
Casing material	painted steel		
Insulation	20 mm mineral wool	40 mm mineral wool	40 mm mineral wool
Extract filter	G4 (optional F7)		
Supply filter	G4 (optional F7)		
Connected air duct diameter [mm]	Ø125	Ø160	Ø200
Weight [kg]	34	61	70
Heat recovery efficiency [%]	from 88 up to 98	from 85 up to 98	from 81 up to 97
Heat exchanger type	counter-flow		
Heat exchanger material	polystyrene		

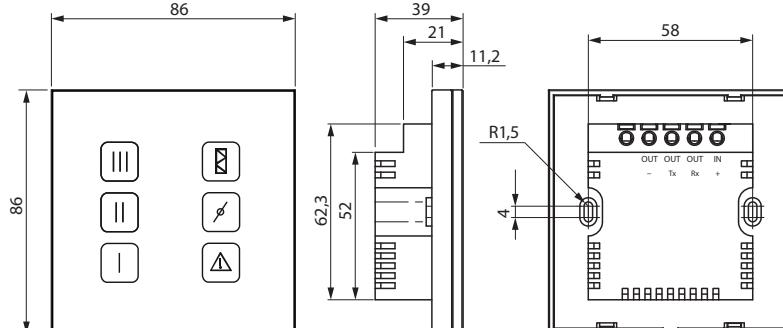


Model	Dimensions [mm]									
	ØD	ØD1	B	B1	H	H1	L	L1	L2	
VUT 160 V EC A14	125	18	348	330	650	550	600	388	143	
VUT 350 VB EC A14	160	18	610	592	758	675	734	426	230	
VUT 550 VB EC A14	200	18	741	722	758	675	825	493	284	

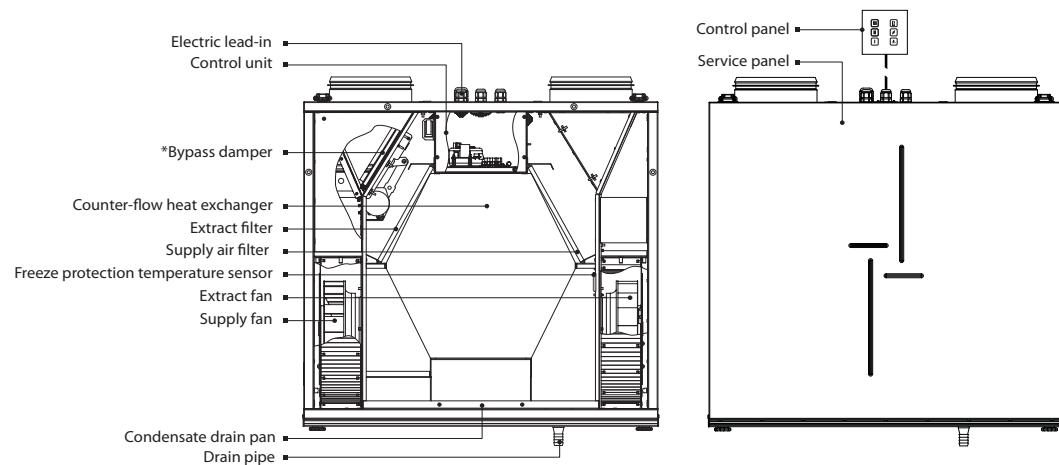
Control panel

The sensor panel contains touch buttons for unit control and an emergency indicator, refer page 13.

Unit voltage 8 – 30V
Temperature range from 0 °C up to +45 °C
Service life 100 000 switching operations
Ingress Protection IP30
Weight 150 g
Humidity range from 5% to 80% (no condensation)



■ UNIT DESIGN AND OPERATING LOGIC



The service panel is installed at the side of the unit for repair and maintenance operations. The control unit with a hinged electrical mounting plate is positioned in the upper part of the unit casing. The power cable and grounding cable are connected to the control unit via the electric lead-ins. The difference between the supply and extract air flow temperature leads to condensate generation. Condensate is collected in the drain pan and is removed outside through the drain pipe.

At the request of the customer the unit can be equipped with a humidity sensor. The humidity sensor is purchased separately as an accessory. The unit with the installed humidity sensor maintains a set indoor humidity point. As the extract air humidity rises above the set point, the system automatically switches to the maximum speed. As the humidity drops down below the set point the unit returns to the previous mode. Installation and connection of the humidity sensor as well as setting of the humidity level using the software is carried out on site by the service technician. The software is available for download on our website: http://www.ventilation-system.com/images/cat/812_2902_cat_file_lang_2.rar.

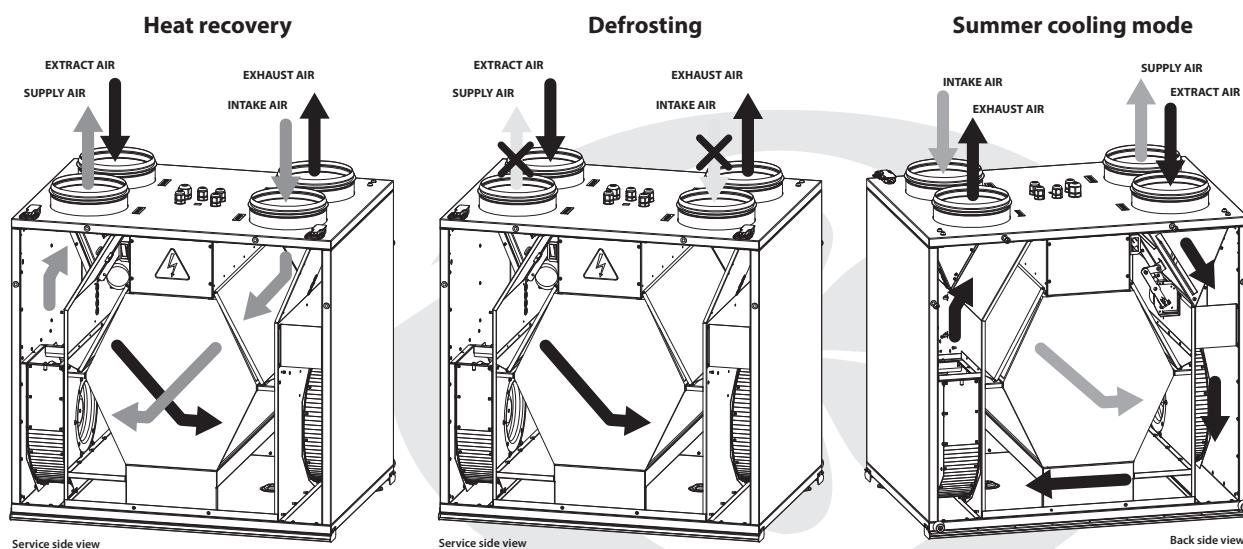
* The following units incorporate a bypass damper: VUT 350 VB EC A14 and VUT 550 VB EC A14.

Unit operation modes

Heat recovery mode: warm extract air from the room flows into the unit and is cleaned in the extract filter. Then the air is moved through the heat exchanger and is exhausted outside with the extract fan. Cold fresh air from outside flows into the unit, where it is cleaned in the supply filter. Then the air flows through the heat exchanger and is moved to the room with the supply fan. Supply air is heated in the heat exchanger by transferring the heat energy of warm and humid extract air to the cold fresh air. The air flows are fully separated while flowing through the heat exchanger. Heat recovery minimizes heat losses, which reduces the cost of space heating in the cold season.

Defrosting: to prevent the heat exchanger freezing in the cold season the unit has an automatic defrosting mode according to the freeze protection temperature sensor readings in the exhaust air duct downstream of the heat exchanger. The unit switches to the defrosting mode at the extract air temperature +3 °C. As the temperature rises the unit returns to the previous mode. Only the extract fan operates in the defrosting mode, the supply fan is switched off.

Summer cooling mode: the bypass damper is opened, the extract air that is removed from the premises is routed along the bypass duct and does not come in contact with the heat exchanger. The temperature of the intake air is not changed. The summer cooling mode is set from the control panel, refer Unit control section, page 12.



MOUNTING AND SET-UP

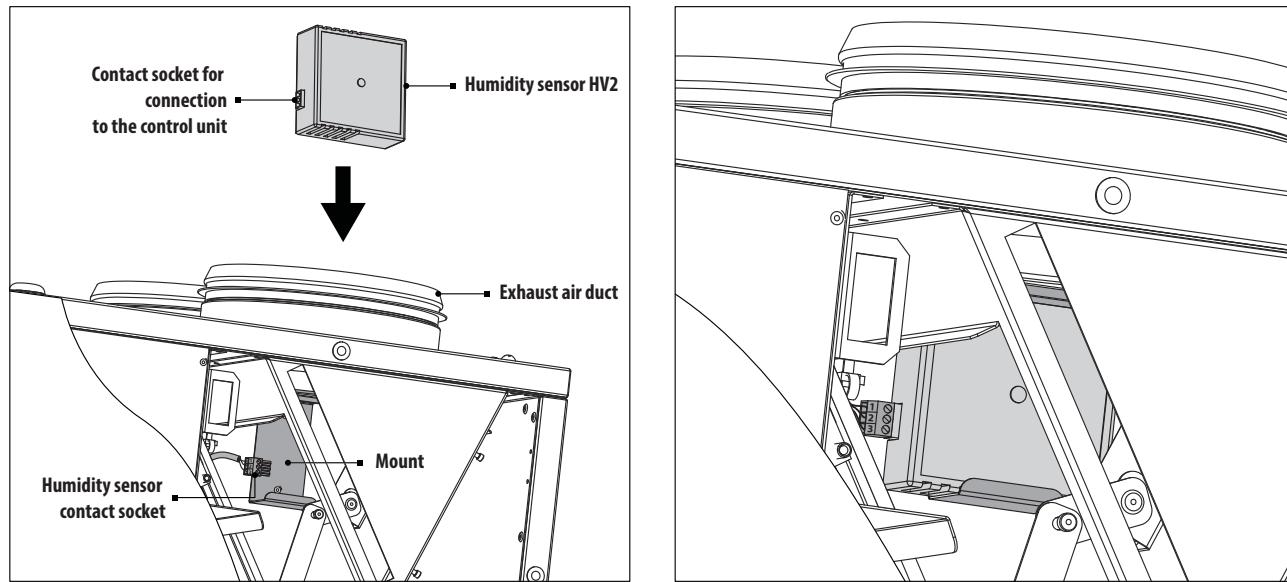


THE UNIT MUST BE MOUNTED BY A QUALIFIED EXPERT ONLY, PROPERLY TRAINED AND HAVING THE REQUIRED TOOLS AND MATERIALS.

HV2 HUMIDITY SENSOR MOUNTING

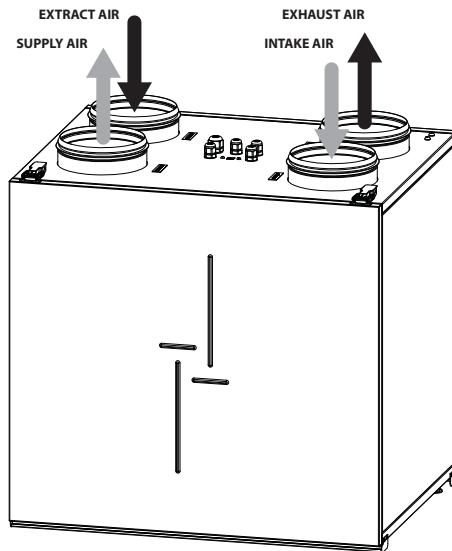
The HV2 humidity sensor is not included into delivery set and should be ordered separately. The humidity sensor must be installed prior to unit mounting.

Install the humidity sensor through the extract spigot into the mount on the extract air duct panel and connect the humidity sensor contact socket to the respective contact socket on the control unit, refer to the External wiring diagram.

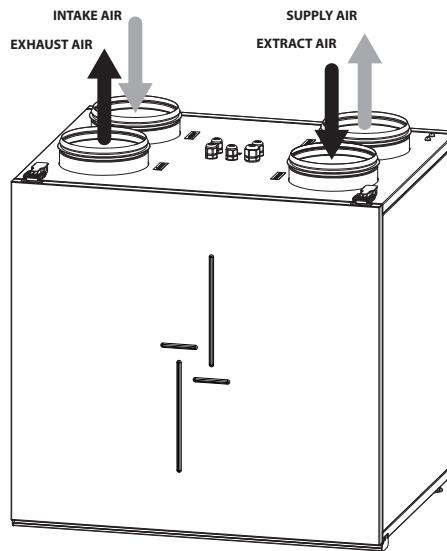


SERVICE SIDE CHANGE

Make sure of the correct unit service side selection. Unit mounting position should enable free access to the service panel for maintenance and service operations.

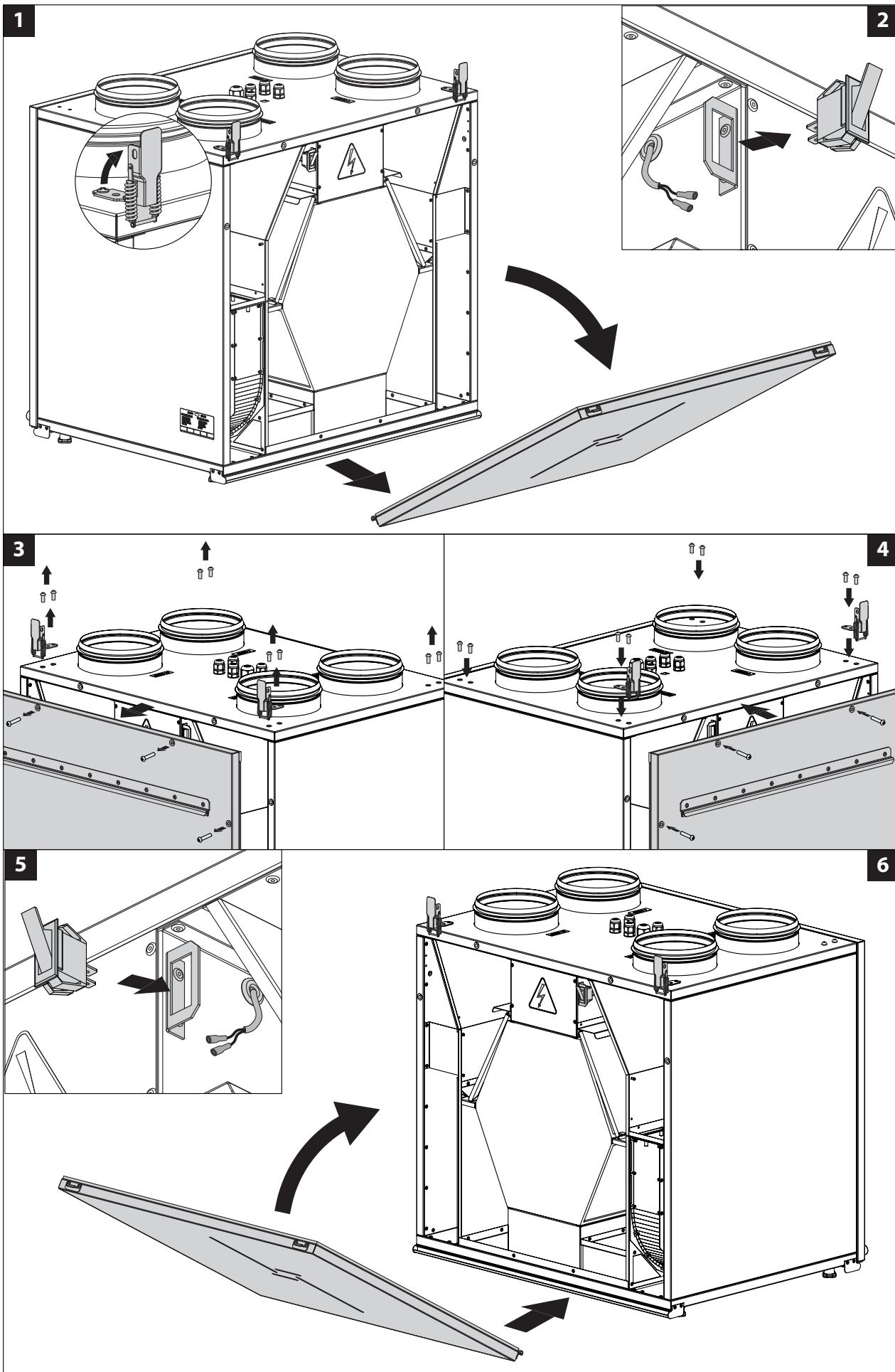


Left-handed modification



Right-handed modification

Service side change for unit mounting:



■ UNIT MOUNTING

To attain the best performance of the unit and to minimise turbulence-induced air pressure losses while mounting connect a straight air duct section on both sides of the unit.

Minimum straight air duct length:

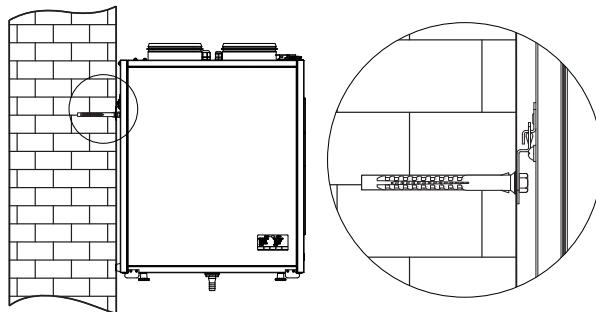
- equal to 1 air duct diameter on intake side.
- equal to 3 air duct diameters on outlet side.

If the air ducts are not connected or the connected air ducts are too short, protect the unit parts from ingress of foreign objects by covering the spigots with a protecting grille or other protecting device with mesh width not more than 12.5 mm to prevent uncontrollable access to the fans.

While installing the unit ensure convenient access for subsequent maintenance and repair. The unit must be mounted on a plane wall. Mounting the unit to an uneven surface can lead to the unit casing distortion and operation disturbance.

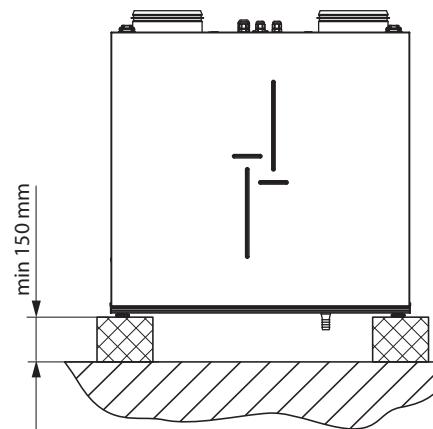
Unit wall mounting.

Fasteners for wall-mounting are not included into delivery set and should be ordered separately. While choosing fasteners consider the material of the mounting surface as well as the weigh of the unit, refer Technical Data. Fasteners for unit mounting should be selected by Customer Service technician. Fix the wall-mounted hook at the appropriate level and fix the unit on the hook.



Unit floor mounting.

Install the unit on the preset floor supports, minimum 150 mm height, to ensure sufficient access for the drain pipe connection to the U-trap and for condensate drain system mounting.



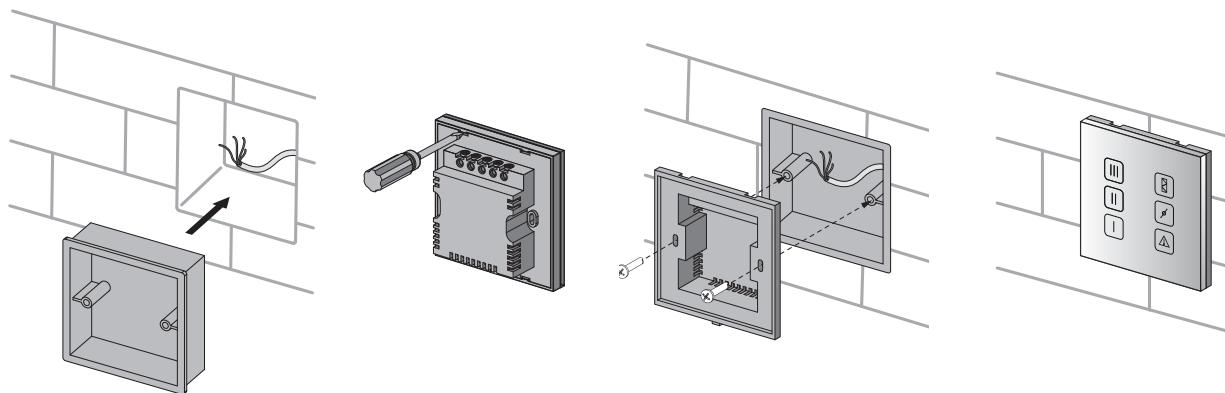
■ WALL-MOUNTED CONTROL PANEL INSTALLATION



MAKE SURE THAT THE CONTROL PANEL IS NOT DAMAGED. DO NOT USE A DAMAGED CONTROL PANEL! DO NOT INSTALL THE CONTROL PANEL ON AN UNEVEN SURFACE! WHILE TIGHTENING THE SCREWS, DO NOT APPLY EXCESSIVE FORCE TO PREVENT THE CONTROL PANEL CASING DEFORMATION.

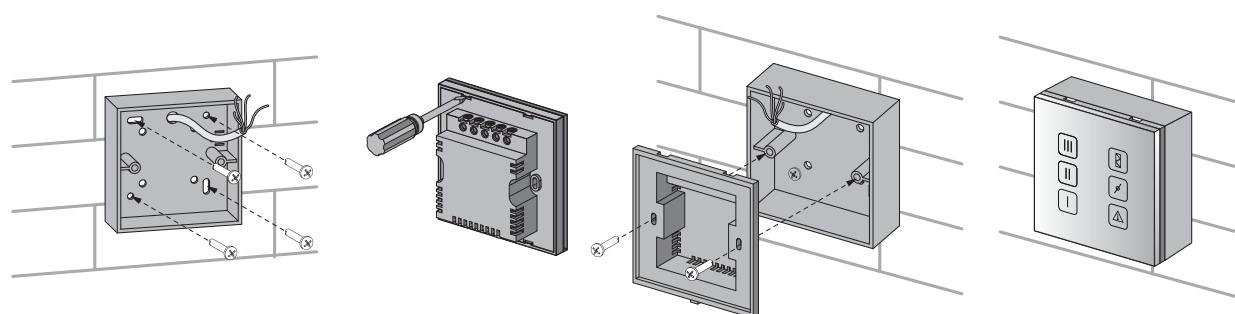
Control panel wall flush mounting:

1. Make a hole in the wall to install the control panel. Insert all the necessary cables and wires into the hole, install the mounting box from the delivery set into the wall.
2. Use a screwdriver to carefully undo the clips on the backside of the control panel and remove the back cover.
3. Fix the back side of the casing to the mounting box through the mounting holes, then connect the cable to the control panel in accordance with the Wiring diagram.
4. Fix the front side of the control panel using the latches.



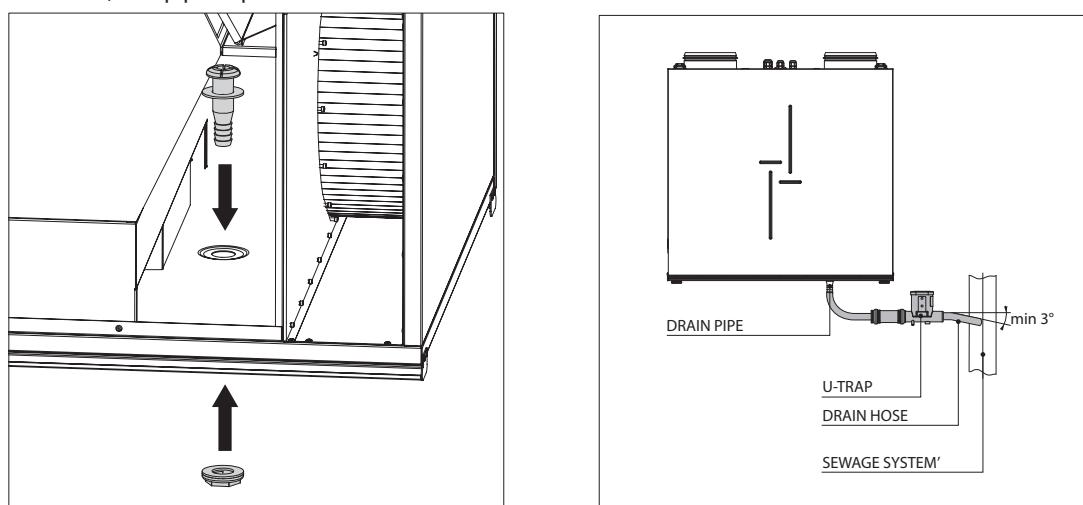
Control panel wall surface mounting:

1. Lead all necessary cables and wires to the control panel mounting place and install the mounting box from the delivery set on the wall.
2. Use a screwdriver to carefully undo the clips on the backside of the control panel and remove the back cover.
3. Fix the back side of the casing to the mounting box through the mounting holes using two screws from the delivery set. Then connect the cable to the control panel in accordance with the Wiring diagram.
4. Fix the front side of the control panel using the latches.



■ CONDENSATE DRAINAGE

The hole for the drain pipe is at the bottom of the unit. Remove the plug from the hole, open the service panel and install the drain pipe from the delivery set into the hole, then connect the drain pipe to the sewage system using the SG-32 U-trap kit (available upon separate order). The pipe slope downwards must be at least 3°.



■ CONNECTION TO POWER MAINS



DISCONNECT THE UNIT FROM POWER MAINS PRIOR TO ANY OPERATIONS. THE UNIT MUST BE CONNECTED TO POWER MAINS BY A QUALIFIED ELECTRICIAN. THE RATED ELECTRICAL PARAMETERS OF THE UNIT ARE SHOWN ON THE RATING PLATE.



DO NOT LAY THE CABLE IN CLOSE PROXIMITY TO THE CONTROL PANEL CABLE! DO NOT COIL THE CABLE FROM THE CONTROL PANEL IN LOOPS WHILE LAYING IT.



ANY TAMPERING WITH THE INTERNAL CONNECTIONS IS PROHIBITED AND WILL VOID THE WARRANTY.

Connect the unit to single-phase ac 230 V / 50-60 Hz power mains by using the pre-wired power cord with the Euro Plug XP.

Connect the unit to power mains through the external QF automatic circuit breaker with magnetic trip integrated into the fixed wiring system. The rated current of the circuit breaker must not be below the unit current consumption, refer Maintenance section, page 6.

The unit has an option of additional external controls connection to the X2 terminal block, which is located on the hinged electrical mounting plate of the control unit. Extra connections to the unit are shown in dotted lines in the External wiring diagram, page 12. The contacts are enclosed in brackets on the label of the X2 terminal block:

Technical requirements to a cable for connection of the control panel to the unit:

- type - 4x0,25mm²;
- length - up to 10m.

PK - connection of the automatic fire extinguishing system contact.

Upon connecting the automatic fire extinguishing system contact remove the jumper between the 1 and 2 terminals. In case of fire the dry contact breaks the control circuit from the central fire-fighting board and cuts off power supply to the unit.

Connecting of the external control unit contact, such as CO2 sensor (NO, C).

Connect the CO2 sensor to the 6 and 7 terminals by using a normally closed dry contact. If the dry contact is closed, the unit turns to the maximum speed.

HV2 (+U, 0-10V, GND) humidity sensor connection.

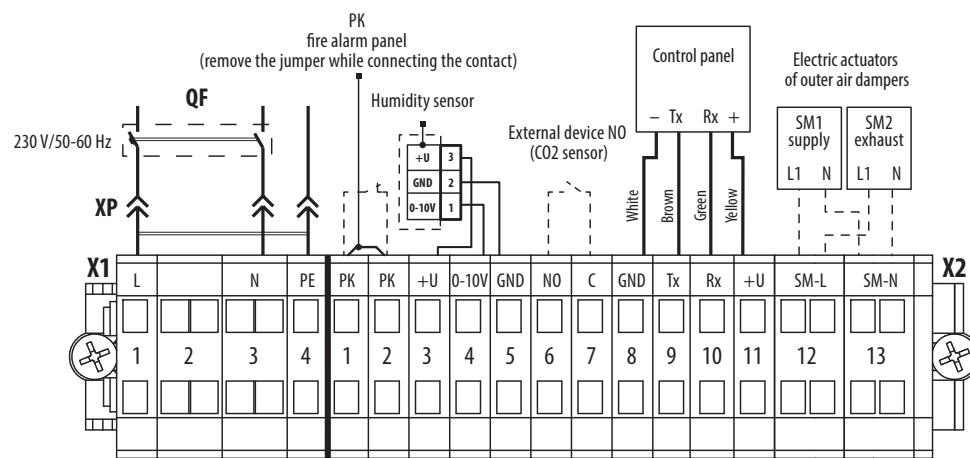
Connect the HV2 humidity sensor (not included into delivery set, should be ordered separately) to the contact socket located on the side panel of the control unit from the side of the extract pipe in accordance with the External wiring diagram.

Connection of outer air dampers (SM1 supply air damper, SM2 exhaust air damper).

The air dampers and the actuator are not included in the delivery set and can be purchased separately. For controlling the air dampers use the LF 230 BELIMO electric actuator with a voltage of 230 V and an open-close controlling.

Connect the electric actuators to the 12 and 13 terminals (refer to the External wiring diagram).

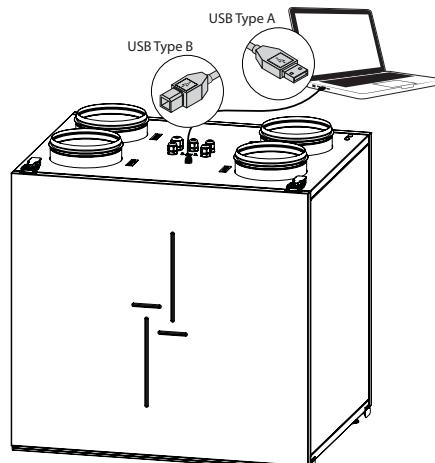
External control units wiring diagram:



■ UNIT CONTROL

■ OPERATION USING SOFTWARE

To work with the pre-installed software connect the unit to a laptop or to a PC via a USB cable with the Type A and Type B contact sockets. The USB cable is not included into delivery set.



The software enables editing the unit parameters:

Parameter	Factory setting	Adjustment range
Zero speed (the unit is off), %	0	0 - 100
Low speed, %	40	0 - 100
Medium speed, %	70	0 - 100
High speed, %	100	0 - 100
Unit speed with the closed dry contact of the external control unit, %	100	0 - 100
Filter cleaning (replacement) interval	2160 (3 months)	0 - 10000
Humidity level, %	60	30 - 80

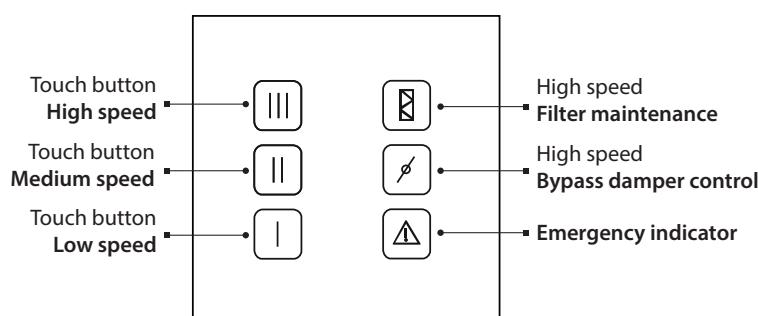
The list of the adjustable parameters can be expanded in new versions of the software.

Setting, troubleshooting and upgrading of the software version is made by the Customer Service technician.

The software is available for downloading on our website http://www.ventilation-system.com/images/cat/812_2902_cat_file_lang_2.rar.

■ CONTROL PANEL

The unit is operated from the wall-mounted control panel by using the touch buttons.



	Indication variants when the unit is off: <ul style="list-style-type: none"> The touch buttons on the control panel are not highlighted. Filter maintenance indicator and emergency indicator are highlighted in the respective cases.
	Unit activation: Press one of three speed setting buttons. The selected button will be highlighted and the unit switches to the required speed.
	Speed changeover: Press the inactive speed setting button once. The selected button will be highlighted and the unit will switch to the required speed.
	Unit deactivation: To turn the unit off press the highlighted speed setting button.
	Summer cooling mode: Press the touch button once. When the touch button is activated the display lights up and the unit switches to the Summer cooling mode in one of the ways, depending on the unit model: <ul style="list-style-type: none"> VUT 350 VB EC A14 and VUT 550 VB EC A14: the bypass damper is opened. VUT 160 V EC A14: the supply fan is turned off and only the extract fan is in operation. Each time a touch button is pressed, the current unit status is changed and saved in the control panel memory.
	Filter maintenance: As the unit reaches the set value of operating hours, the touch button is highlighted to remind about cleaning or replacing of the filters. After filter replacement or cleaning, reset the motor hours. Press and hold the touch button for 5 seconds. Resetting of the timer is confirmed by the touch button light turning off. When Customizing the timer software for setting the number of hours refer to Filter maintenance section, page 14.
	Alarm: In case of alarm, the alarm indicator is highlighted. In case of alarm indication, contact the service centre!

■ MAINTENANCE

⚠ DISCONNECT THE UNIT FROM POWER MAINS PRIOR TO ANY MAINTENANCE OPERATIONS.

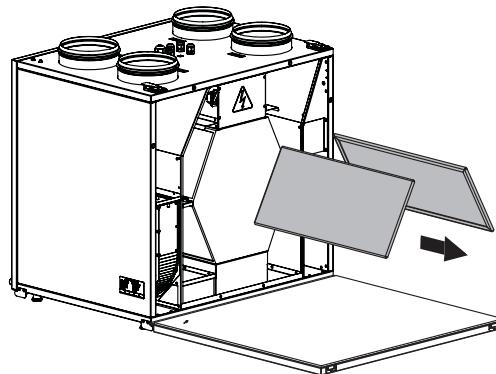
Maintenance operations of the unit are required 3-4 times per year. Maintenance includes regular cleaning and the following operations:

1. Filter maintenance (3-4 times per year).

Dirty filters increase air resistance in the system and reduce supply air volume. The filters require cleaning not less than 3-4 times per year. Vacuum cleaning is allowed. After two consecutive cleanings filters must be replaced. Contact the unit Seller to purchase new filters.

2. Heat exchanger maintenance (once per year).

Some dust may accumulate on the heat exchanger block even in case of regular maintenance of the filters. To maintain the high heat exchange efficiency, regular cleaning is required. To clean the heat exchanger pull it out of the unit and flush it with warm detergent solution. After cleaning install the dry heat exchanger back to the unit.



3. Fan maintenance (once per year).

Even in case of regular maintenance of the filters, some dust may accumulate inside the fans and reduce the fan performance and supply air flow.

Clean the fans with a soft brush or cloth. No water and abrasive detergent, sharp objects or solvents are allowed for cleaning to prevent the impeller damage.

4. Condensate drainage maintenance (once per year).

The drain pipes may get clogged with the extracted particles. Pour some water inside the drain pan to check the pipe for clogging. Clean the U-trap and the drain pipe if required.

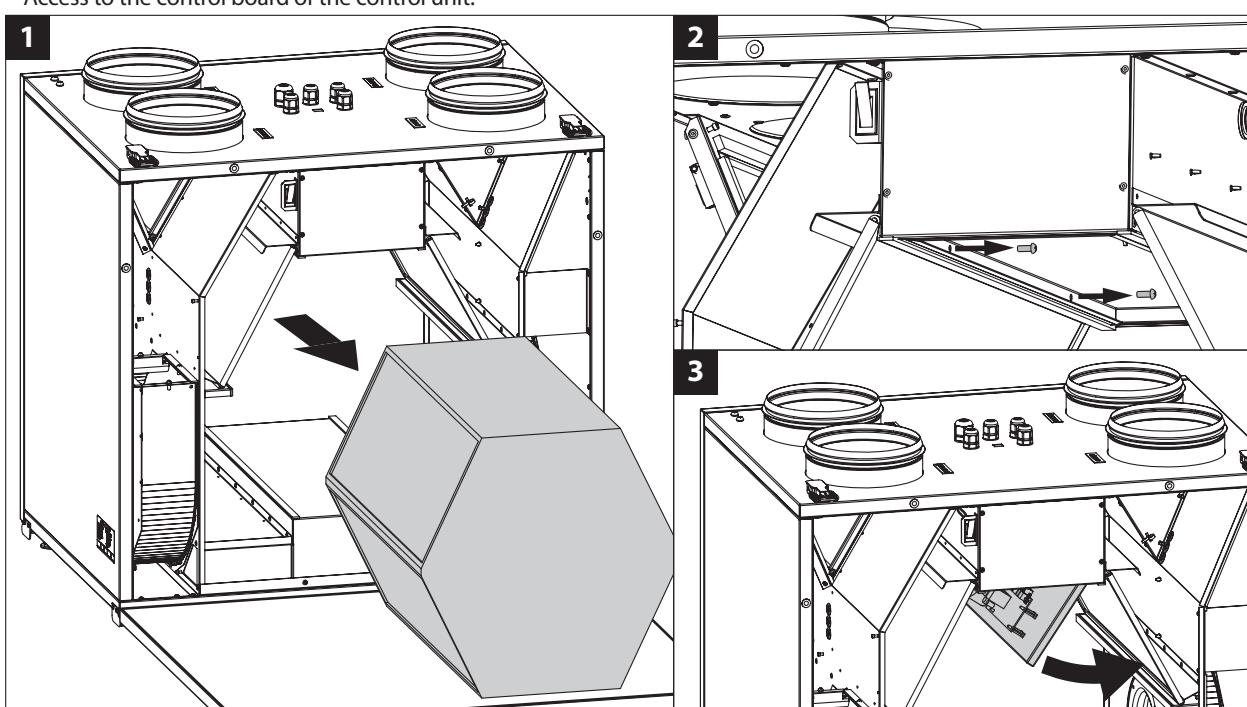
5. Ductwork system maintenance (once in 5 years).

Even if you follow all the listed maintenance guidelines, some dust can get accumulated inside the air ducts and reduce the unit performance. Duct maintenance means regular cleaning or replacement.

6. Control unit maintenance (if necessary).

The control unit maintenance must be performed by an expert qualified for unassisted operations with electrical installations with the voltage up to 1000 V after careful reading of the user's manual.

Access to the control board of the control unit:



■ FAULT HANDLING

Problem	Possible reasons	Fault handling
The fan(s) do(es) not get started	No power supply.	Make sure the power supply line is connected correctly, otherwise troubleshoot a connection error.
Low air flow	Filters, fans or the heat exchanger are soiled.	Clean or replace the filters; clean the fan(s) and the heat exchanger.
	The ventilation system is soiled or damaged.	Clean the ventilation system components. Replace the damaged components.
Noise, vibration	The impellers are soiled.	Clean the impellers.
	The fan or casing screw connection is loose.	Tighten the mounting screws of the fans or the casing against stop.
Water leakage	The drainage system is soiled, damaged or arranged not correctly.	Clean the drainage system. Check the drain line slope angle. Make sure that the U-trap is filled with water and the drain pipes are frost protected.

■ STORAGE AND TRANSPORTATION RULES

Store the unit in the manufacturer's original packing box in a dry closed ventilated premise with temperature range from +5 °C to +40°C.

Vapours or particles which can cause corrosion or damage the insulation or connection tightness are not allowed in the storage environment.

Use hoist machinery for handling and transportation to prevent possible mechanical damages of the unit. Fulfil the requirements for transportation of the specified cargo type.

Use any vehicle types for the unit transportation provided that it is protected against mechanical or weather damage.

Avoid any mechanical shocks and strokes during handling operations.



■ MANUFACTURER'S WARRANTY

The manufacturer hereby warrants normal operation of the unit over the period of 12 months from the retail sale date provided the user's observance of the transportation, storage, installation and operation regulations.

Should any malfunctions occur during the unit operation due to manufacturer's fault during the warranty period the user is entitled to elimination of faults by means of warranty repair performed by the manufacturer.

The warranty repair includes work specific to elimination of faults in the unit operation to ensure its intended use by the user within the warranty period. The faults are eliminated by means of replacement or repair of the complete unit or the faulty part thereof.

The warranty repair does not include:

- routine maintenance;
- unit installation / dismantling;
- unit setup.

To benefit from warranty repair the user must provide the unit, the user's manual with stamped sale date and the payment document certifying the purchase.

The unit model must comply with the one stated in the user's manual.

Contact the Seller for warranty service.

The manufacturer's warranty does not apply to the following cases:

- user's failure to provide the unit with the entire delivery package as stated in the user's manual or with missing component parts previously dismounted by the user;
- mismatch of the unit model and make with the respective details stated on the unit packing and in the user's manual;
- user's failure to ensure timely technical maintenance of the unit;
- external damage to the casing (excluding external modifications of the unit as required for its installation) and the internal components of the unit;
- alteration of the unit design or engineering changes of the unit;
- replacement and use of the unit assemblies, parts and components not approved by the manufacturer;
- unit misuse;
- user's violation of the unit installation regulations;
- user's violation of the unit control regulations;
- unit connection to the power mains with a voltage different from the one stated in the user's manual;
- unit breakdown due to voltage surges in the power mains;
- user's discretionary repair of the unit;
- unit repair performed by any persons not authorized by the manufacturer;
- expiry of the unit warranty period;
- user's violation of the established regulations specific to the unit transportation;
- user's violation of the unit storage regulations;
- wrongful acts against the unit committed by third persons;
- unit breakdown due to circumstances of insuperable force (fire, flood, earthquake, war, hostilities of any kind or blockades);
- missing seals if provided by the user's manual;
- failure to provide the user's manual with the sale date stamp;
- missing payment document certifying the unit purchase.



FOLLOWING THE REGULATIONS STIPULATED HEREIN WILL ENSURE A LONG AND TROUBLE-FREE OPERATION OF THE UNIT.



USERS' CLAIMS SHALL BE A SUBJECT TO REVIEW ONLY UPON PRESENTATION OF THE UNIT, THE PAYMENT DOCUMENT AND THE USER'S MANUAL WITH THE SALE DATE STAMP.

■ ACCEPTANCE CERTIFICATE

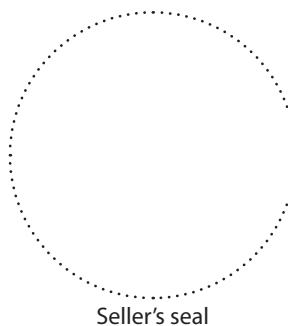
Product Type	Heat recovery air handling unit
Model	VUT V EC A14
Serial Number	
Manufacturing Date	
<p>is compliant with the technical specifications and is hereby declared ready for service. We hereby declare that the product complies with the essential protection requirements of Electromagnetic Council Directive 2004/108/EC, 89/336/EEC and Low Voltage Directive 2006/95/EC, 73/23/EEC and CE-marking Directive 93/68/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility. This certificate is issued following test carried out on samples of the product referred to above.</p>	
Quality Inspector's Stamp	

■ SELLER INFORMATION

Shop name	
Address	
Phone number	
E-mail	
Sales date	

This is to certify delivery of the complete unit with the user's manual. The warranty terms are acknowledged and accepted.

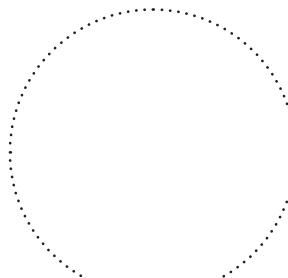
Customer's signature



Seller's seal

■ CONNECTION CERTIFICATE

VUT V EC A14 heat recovery air handling unit has been connected to power mains pursuant to the requirements stated in the present user's manual.	
Company name	
Address	
Phone number	
Installation technician's full name	
Installation date:	Signature:



Installation technician's company seal

<p>This is to certify that the works specific to the unit installation has been performed in accordance with all the applicable provisions of local and national construction, electrical and technical codes and standards. The unit operates normally as intended by the manufacturer.</p>	
Signature:	

■ WARRANTY CARD

Product type	Heat recovery air handling unit
Model	VUT V EC A14
Serial number	
Manufacturing date	
Sales date	
Warranty period	
Sales company	



Seller's seal



